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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
10/810,823	03/29/2004	Jang Hui Cho	1740-000070/US/COA	1001
30593	7590	09/13/2007	EXAMINER	
HARNESS, DICKEY & PIERCE, P.L.C.			SHIBRU, HELEN	
P.O. BOX 8910			ART UNIT	PAPER NUMBER
RESTON, VA 20195			2621	
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09/13/2007		PAPER		

Please find below and/or attached an Office communication concerning this application or proceeding.

The time period for reply, if any, is set in the attached communication.

<i>Office Action Summary</i>	Application No.	Applicant(s)
	10/810,823	CHO ET AL.
Examiner	Art Unit	
	HELEN SHIBRU	2621

-- The MAILING DATE of this communication appears on the cover sheet with the correspondence address --

Period for Reply

A SHORTENED STATUTORY PERIOD FOR REPLY IS SET TO EXPIRE 3 MONTH(S) OR THIRTY (30) DAYS, WHICHEVER IS LONGER, FROM THE MAILING DATE OF THIS COMMUNICATION.

- Extensions of time may be available under the provisions of 37 CFR 1.136(a). In no event, however, may a reply be timely filed after SIX (6) MONTHS from the mailing date of this communication.
- If NO period for reply is specified above, the maximum statutory period will apply and will expire SIX (6) MONTHS from the mailing date of this communication.
- Failure to reply within the set or extended period for reply will, by statute, cause the application to become ABANDONED (35 U.S.C. § 133). Any reply received by the Office later than three months after the mailing date of this communication, even if timely filed, may reduce any earned patent term adjustment. See 37 CFR 1.704(b).

Status

1) Responsive to communication(s) filed on 27 July 2007.

2a) This action is **FINAL**. 2b) This action is non-final.

3) Since this application is in condition for allowance except for formal matters, prosecution as to the merits is closed in accordance with the practice under *Ex parte Quayle*, 1935 C.D. 11, 453 O.G. 213.

Disposition of Claims

4) Claim(s) 1-4, 9, 11 and 14-38 is/are pending in the application.
4a) Of the above claim(s) _____ is/are withdrawn from consideration.

5) Claim(s) _____ is/are allowed.

6) Claim(s) 1-4, 9, 11 and 14-38 is/are rejected.

7) Claim(s) _____ is/are objected to.

8) Claim(s) _____ are subject to restriction and/or election requirement.

Application Papers

9) The specification is objected to by the Examiner.

10) The drawing(s) filed on _____ is/are: a) accepted or b) objected to by the Examiner.

Applicant may not request that any objection to the drawing(s) be held in abeyance. See 37 CFR 1.85(a).

Replacement drawing sheet(s) including the correction is required if the drawing(s) is objected to. See 37 CFR 1.121(d).

11) The oath or declaration is objected to by the Examiner. Note the attached Office Action or form PTO-152.

Priority under 35 U.S.C. § 119

12) Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f).
a) All b) Some * c) None of:
1. Certified copies of the priority documents have been received.
2. Certified copies of the priority documents have been received in Application No. _____.
3. Copies of the certified copies of the priority documents have been received in this National Stage application from the International Bureau (PCT Rule 17.2(a)).

* See the attached detailed Office action for a list of the certified copies not received.

Attachment(s)

1) Notice of References Cited (PTO-892) 4) Interview Summary (PTO-413)
2) Notice of Draftsperson's Patent Drawing Review (PTO-948) Paper No(s)/Mail Date. ____ .
3) Information Disclosure Statement(s) (PTO/SB/08)
Paper No(s)/Mail Date ____ . 5) Notice of Informal Patent Application
6) Other: ____ .

DETAILED ACTION

Continued Examination Under 37 CFR 1.114

1. A request for continued examination under 37 CFR 1.114, including the fee set forth in 37 CFR 1.17(e), was filed in this application after final rejection. Since this application is eligible for continued examination under 37 CFR 1.114, and the fee set forth in 37 CFR 1.17(e) has been timely paid, the finality of the previous Office action has been withdrawn pursuant to 37 CFR 1.114. Applicant's submission filed on 07/27/2007 has been entered.

Response to Amendment

2. The amendments filed on 05/23/2007 have been entered and made of record. Claims 1-4, 9, 11, 14-38 are pending.

Response to Arguments

3. Applicant's arguments with respect to claims 1-4, 9, 11, 14-38 have been considered but are moot in view of the new ground(s) of rejection.

Claim Rejections - 35 USC § 103

4. The following is a quotation of 35 U.S.C. 103(a) which forms the basis for all obviousness rejections set forth in this Office action:

(a) A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and the prior art are such that the subject matter as a whole would have been obvious at the time the invention was made to a person having ordinary skill in the art to which said subject matter pertains. Patentability shall not be negated by the manner in which the invention was made.

5. Claims 1-4, 9, 11, and 14-38 are rejected under 35 U.S.C. 103(a) as being unpatentable over Okada (US PG PUB 2002/0046328) in view of Yamamoto (US Pat. No. 5,742,569).

Regarding claim 1, Okada discloses a computer readable recording medium having a data structure for managing reproduction of at least video data representing multiple reproduction paths, comprising: a data area storing at least video data as a transport stream in more than one file, each file associated with a different one of the multiple reproduction paths, and the files being interleaved with one another (see page 2 paragraphs 0034-0037, page 8 paragraph 0175, paragraph 0193 and 0234, and figures 4, 26, and 29).

Claim 1 differs from Okada in that the claim further requires a navigation area storing a first navigation unit, the first navigation unit including one or more second navigation units and controlling a reproduction order of the second navigation units, at least one second navigation unit referencing more than one third navigation unit, each third navigation unit indicating a separate file of video data in the data area to reproduce.

In the same field of endeavor Yamamoto discloses a navigation area storing a first navigation unit, the first navigation unit including one or more second navigation units and controlling a reproduction order of the second navigation units, at least one second navigation unit referencing more than one third navigation unit, each third navigation unit indicating a separate file of video data in the data area to reproduce (see fig. 6, col. 12 lines 1-34, where it teaches the PGCI includes program information and cell information, col. 15 line 29-col. 16 line 40 and figs. 7A and 7B). Therefore in light of the teaching in Yamamoto it would have been obvious to one of ordinary skill in the art at the time the invention was made to modify Okada by including navigation units in order to control the data.

Regarding claim 2, Okada discloses the transport packets associated with each reproduction path are grouped into data blocks, and the transport packets of each reproduction

path are interleaved with one another on a data block by data block basis (see page 2 paragraphs 0034-0037, page 8 paragraph 0175, paragraph 0193 and 0234, and figures 4, 26, and 29, see also fig. 5 in Yamamoto).

Regarding claim 3, Okada discloses wherein each data block represents at least an intra-coded picture of video data (see figure 12 and paragraphs 0005-0009 in page 1 and paragraph 0167 in page 8 in Okada and fig. 2 in Yamamoto).

Regarding claim 4, Okada discloses wherein each data block represents at least one group of pictures (GOP) (see figure 4 in Okada and fig. 2 in Yamamoto).

Claim 9 is rejected for the same reason as discussed in claim 1.

Regarding claim 11, Okada discloses a computer-readable recording medium having a data structure for managing reproduction of at least video data representing multiple reproduction paths, comprising:

a data area storing a transport stream of at least video data, the transport stream being divided into transport packets, each of the transport packets associated with one of the multiple reproduction paths, and the transport packets of each reproduction path being interleaved with one another (see rejection of claim 1 above); and

Claim 11 differs from Okada in that the claim further requires a navigation area including a first navigation unit including one or more second navigation units, the second navigation unit providing navigation information for reproducing each of the multiple reproduction paths and, including a multiple reproduction path indicator indicating that the second navigation unit provides navigation information for multiple reproduction paths.

In the same field of endeavor Yamamoto discloses a navigation area including a first navigation unit including one or more second navigation units, the second navigation unit providing navigation information for reproducing each of the multiple reproduction paths and, including a multiple reproduction path indicator indicating that the second navigation unit provides navigation information for multiple reproduction paths (see fig. 6, col. 12 lines 1-34, where it teaches the PGCI includes program information and cell information, col. 15 line 29- col. 16 line 40 and figs. 7A and 7B). Therefore in light of the teaching in Yamamoto it would have been obvious to one of ordinary skill in the art at the time the invention was made to modify Okada by including navigation units in order to control the data.

Regarding claim 14, Okada discloses each reproduction path represents a digital channel (see pages 1-2).

Regarding claims 15, Okada discloses each reproduction path represents a sub-channel of an RF channel (see pages 1-2).

Regarding claims 16 and 17, limitation of claims 16 and 17 can be found in claim 1 above. Therefore claims 16 and 17 are analyzed and rejected for the same reason as discussed in claim 1 above.

Regarding claim 18, Okada discloses an apparatus for recording a data structure for managing reproduction duration at least video data representing multiple reproduction paths, comprising: a driver for driving an optical recording device to record data on the recording medium (see figure 12 which shows a driver circuit 63); a controller for controlling the driver to record a transport stream of at least video data on the recording medium, the transport stream being divided into transport packets, each of the transport packets associated with one of the

multiple reproduction paths, and the transport packets of each reproduction path being interleaved with one another (see figure 12 which shows the driver circuit controlled by the controller MPU, and rejection of claim 1).

Claim 18 differs from Okada in that the claim further requires the controller configured to control the driver to record a first navigation unit on the recording medium, the first navigation unit including one or more second navigation units and controlling a reproduction order of the second navigation units, at least one of the second navigation units referencing more than one third navigation unit, each third navigation unit indicating a separate file of video data to reproduce.

In the same field of endeavor Yamamoto discloses a controller configured to control the driver to record a first navigation unit on the recording medium, the first navigation unit including one or more second navigation units and controlling a reproduction order of the second navigation units, at least one of the second navigation units referencing more than one third navigation unit, each third navigation unit indicating a separate file of video data to reproduce (see figs. 6 and 10, col. 12 lines 1-34, where it teaches the PGCI includes program information and cell information, col. 15 line 29-col. 16 line 40 and figs. 7A and 7B). Therefore in light of the teaching in Yamamoto it would have been obvious to one of ordinary skill in the art at the time the invention was made to modify Okada by including navigation units in order to control the data.

Claim 19 is rejected for the same reason as discussed in claim 18 above.

Regarding claim 20, the limitation of claim 20 can be found in claim 1 above. Therefore claim 20 is analyzed and rejected for the same reason as discussed in claim 1.

Regarding claim 21, Yamamoto discloses a number of the third navigation units associated with the at least one of the second navigation units is equal to a number of the multiple reproduction paths (see figure 6).

Regarding claim 22, Yamamoto discloses at least one of the second navigation units includes a field indicating whether the at least one of the second navigation units provides navigation information for multiple reproduction paths (see figures 6 and 7A-7B).

Claim 23 is rejected for the same reason as discussed in claim 1 above.

Claims 24, 25 and 26 are rejected for the same reason as discussed in claims 2-3, and 15 respectively above.

Claims 27-29 are rejected for the same reason as discussed in claims 2-3, and 15 respectively above.

Claims 30-32 are rejected for the same reason as discussed in claims 2-3, and 15 respectively above.

Claims 33-35 are rejected for the same reason as discussed in claims 2-3, and 15 respectively above.

Claims 36-38 are rejected for the same reason as discussed in claims 2-3, and 15 respectively above.

Conclusion

6. The prior art made of record and not relied upon is considered pertinent to applicant's disclosure.

Park et al. (US Pat. No. 7,072,573).

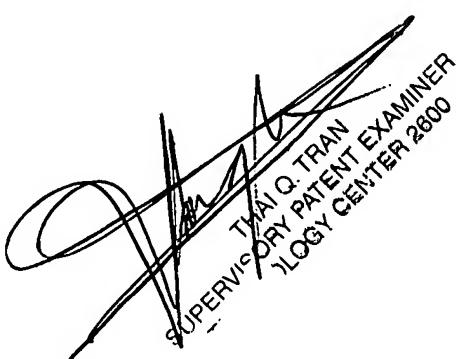
Okada et al. (US Pat. No. 7,072,573).

7. Any inquiry concerning this communication or earlier communications from the examiner should be directed to HELEN SHIBRU whose telephone number is (571) 272-7329. The examiner can normally be reached on M-F, 8:30AM-5PM.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, THAI Q. TRAN can be reached on (571) 272-7382. The fax phone number for the organization where this application or proceeding is assigned is 571-273-8300.

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see <http://pair-direct.uspto.gov>. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free). If you would like assistance from a USPTO Customer Service Representative or access to the automated information system, call 800-786-9199 (IN USA OR CANADA) or 571-272-1000.

Helen Shibru
September 6, 2007



A handwritten signature of Helen Shibru is written in black ink. The signature is fluid and cursive, appearing to read "HELEN SHIBRU". To the right of the signature, there is a block of printed text that reads: "SUPERVISORY PATENT EXAMINER", "THAI Q. TRAN", and "TECHNOLOGY CENTER 2800". The printed text is rotated diagonally, following the angle of the handwritten signature.